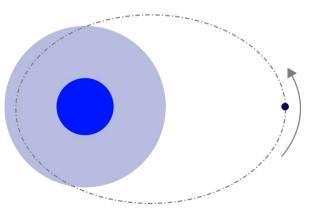


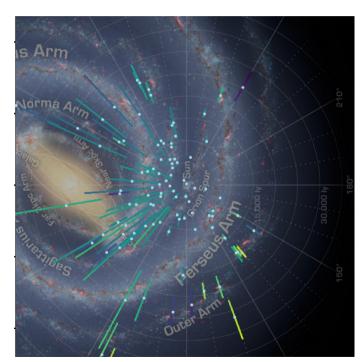




A catalogue of HMXBs in the Galaxy

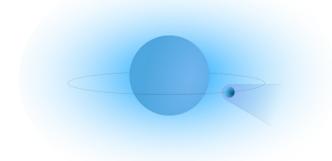




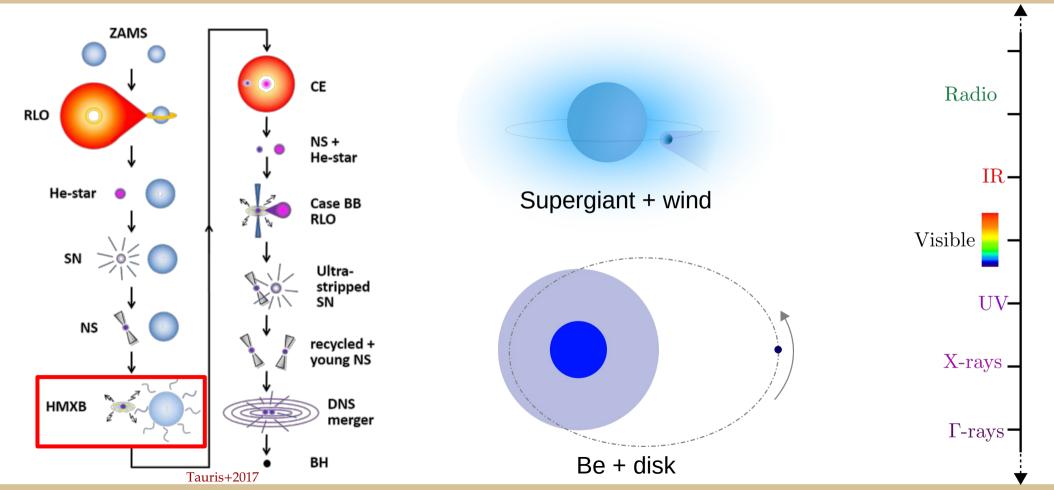








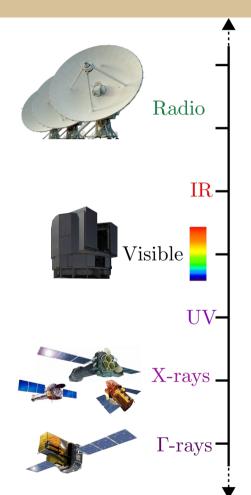
High-mass X-ray binaries



X-ray binaries: observational challenges

- 1) discovery in hard X-rays
- 2) better localization in soft X-rays
- 3) precise counterpart in optical/nIR/radio
 - spectral type of the companion star?
 - (super)orbital period?
 - spin period?
 - radial velocity follow-up?
 - variability?

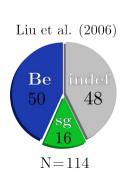
→ Many years & observations are necessary to fully constrain XRBs

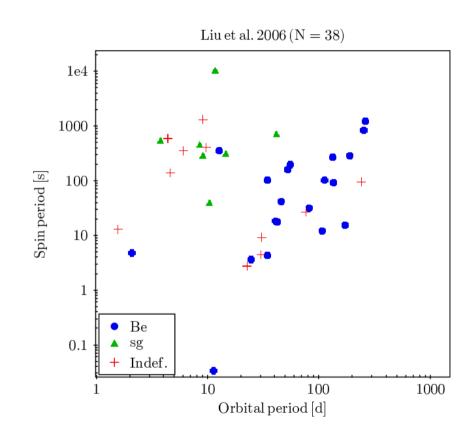


The new catalogue of HMXBs in the Galaxy

Last catalogue of HMXBs: Liu et al. 2006 [114]

- → many new observations since then
- → INTEGRAL was just beginning!





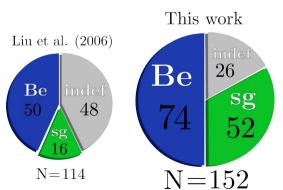
The new catalogue of HMXBs in the Galaxy

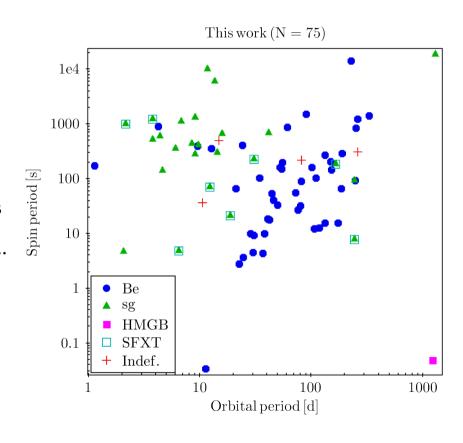
Last catalogue of HMXBs: Liu et al. 2006 [114]

- → many new observations since then
- → INTEGRAL was just beginning!

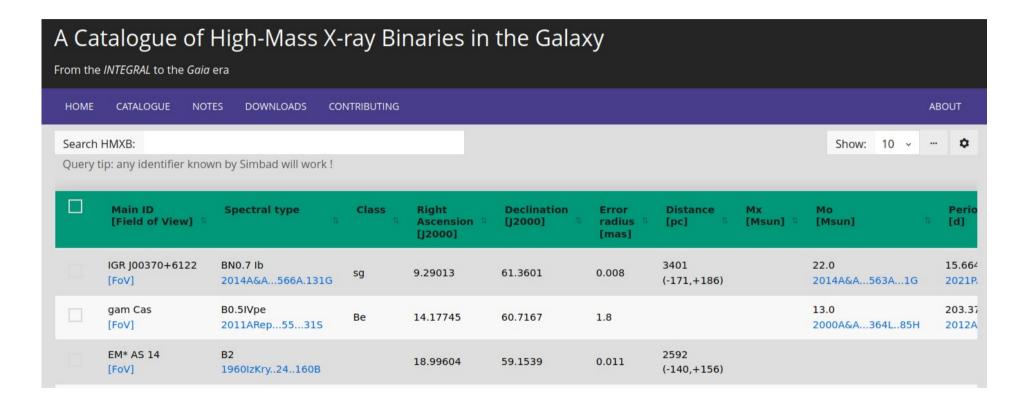
New catalogue of HMXBs: Fortin et al. 2023 [152]

- → automated search for multi-wavelength counterparts
- → manual search for spectral types, orbital parameters...





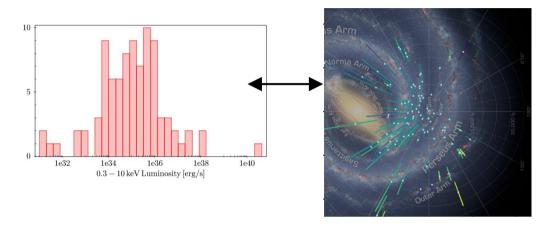
HMXB Webcat: an online tool (live demo!)



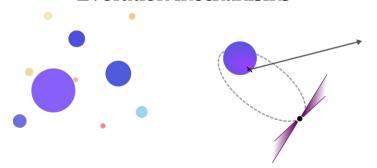
 \rightarrow GitHub/HMXBwebcat

What's the use?

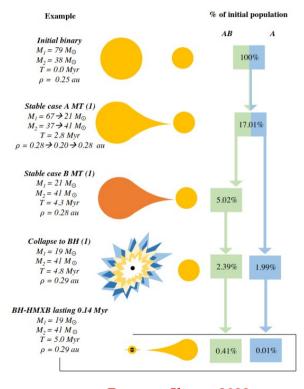
Contribution to X-ray luminosity



Evolution mechanisms



Population synthesis & compact binaries



Romero-Shaw+2023

Any contribution is welcome!

Visit the GitHub repo or reach me via email.

Modifications will be logged on the website & new version will be available for download.

Thanks!

